



# Whistler Design Preview

## April 20 & 21



# **A Preview of Microsoft Management Console 2.0**

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# Agenda

- **MMC 2.0 Object Model**
- **New Snap-in interfaces**
- **View Extensions**
- **XML Console Files**
- **UI Enhancements**

# MMC 2.0 Object Model

- Exposes objects users are familiar with
- Can be used by all Automation clients: VB, VBScript, C++, JavaScript, etc.
- Rich event set

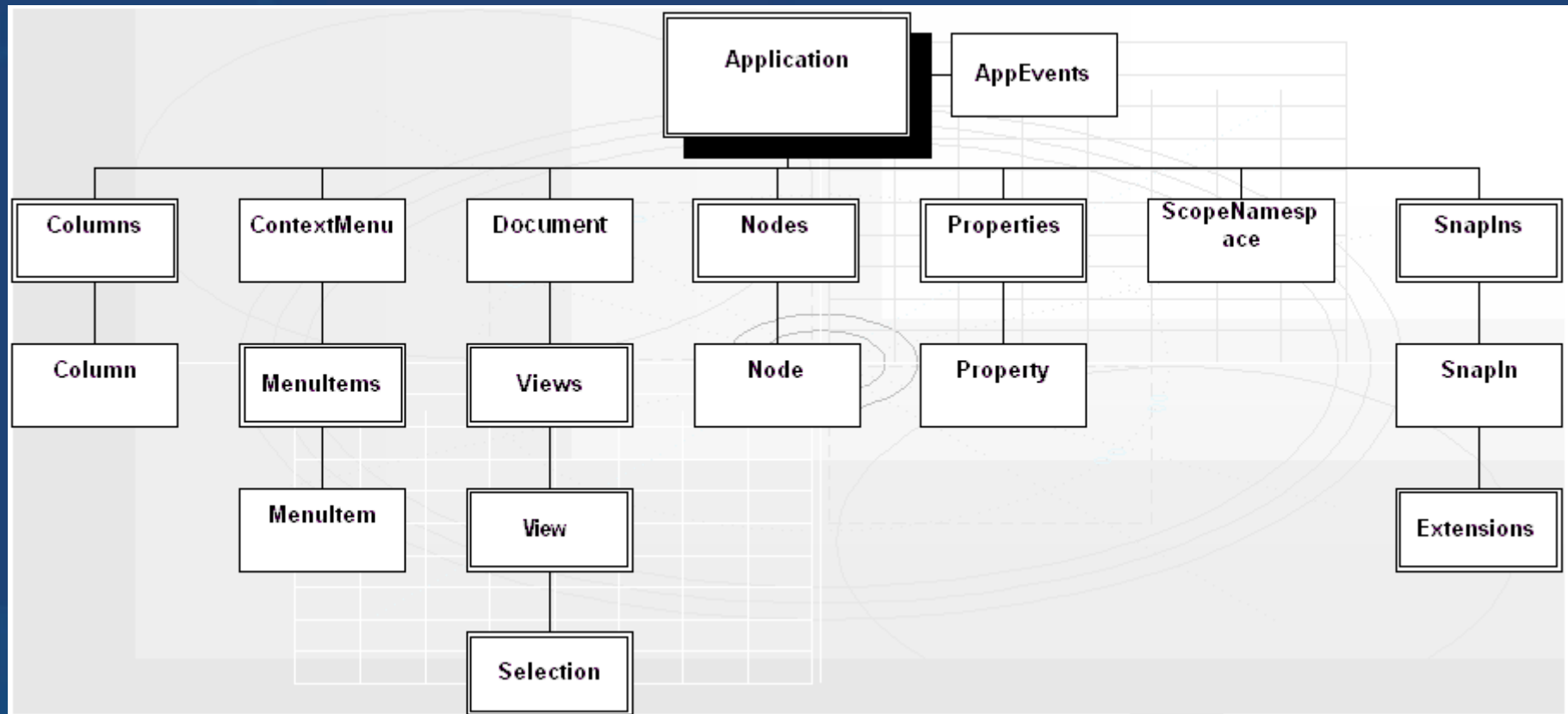
# **MMC 2.0 Object Model**

## **Uses**

- **Create console files on the fly in complex setup scenarios**
- **Automate frequently used tasks**
- **Directly invoke wizards and property sheets with MMC running invisibly**
- **Use within HTML script in the result pane - View Extensions**

# MMC 2.0 Object Model

## Objects and Collections



# New Interfaces

## ContextMenuCallback2

- Language-independent name for menu items makes it easy to invoke via object model
- Also avoids localization problems

# New Interfaces

## Extending the MMC Object Model

- Snapin implements `IComponent2::QueryDispatch` and `IComponentData2::QueryDispatch`
- Accessed via object model methods  
`View::SnapinSelectionObject` and `View::SnapinScopeObject`
- Easy to implement



# **New Interfaces**

## **IComponent2**

- **GetResultViewType2 and RestoreResultView allow views to be restored with greater fidelity**
- **Can specify precisely how OCX's should be cached**
- **Can use licensed OCX's**

# **New Interfaces**

## **Power Management**

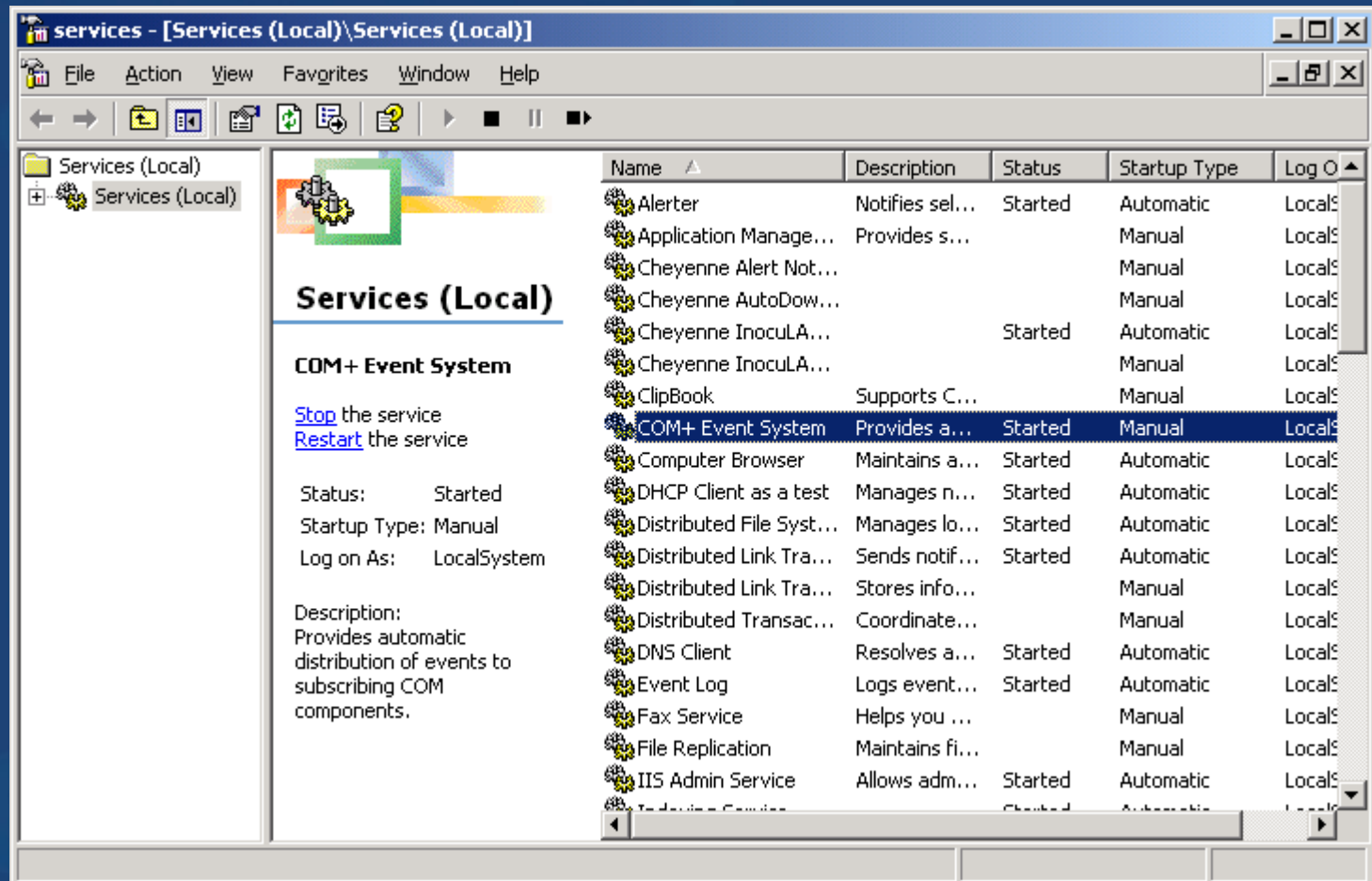
- **IConsolePower and IConsolePowerSink allow snap-ins to specify power requirements**
- **Allows MMC to handle the WM\_POWERBROADCAST message correctly**

# New Interfaces

## MMC Version information

- **IMMCVersionInfo interface**  
**returns version of MMC installed**  
**(for versions  $\geq 2.0$ )**

# View Extensions



# **View Extensions**

## **Overview**

- **New Snap-in Extension Model**
- **New interface: IExtendView with just one method: GetView**
- **Returns URL to IE5 DHTML page, usually a resource in View extension DLL**

# **View Extensions**

## **Continued**

- **Can embed the original snap-in result pane**
- **Can include script that accesses the MMC object model via 'external' object**
- **Can react to events fired by object model**

# **View Extensions**

## **Continued**

- **MMC 2.0 ships with a general purpose view extension snap-in – “Explorer View”**
- **To add “Explorer Views” to your snap-in, just register the Explorer View as an extension to your snap-in!**

# **XML Console Files**

- **Easy to edit and localize**
- **Easy to check console files into source control system**
- **Easy to produce custom console files on the fly in complex setup scenarios**
- **MMC 2.0 continues to read earlier binary console files**

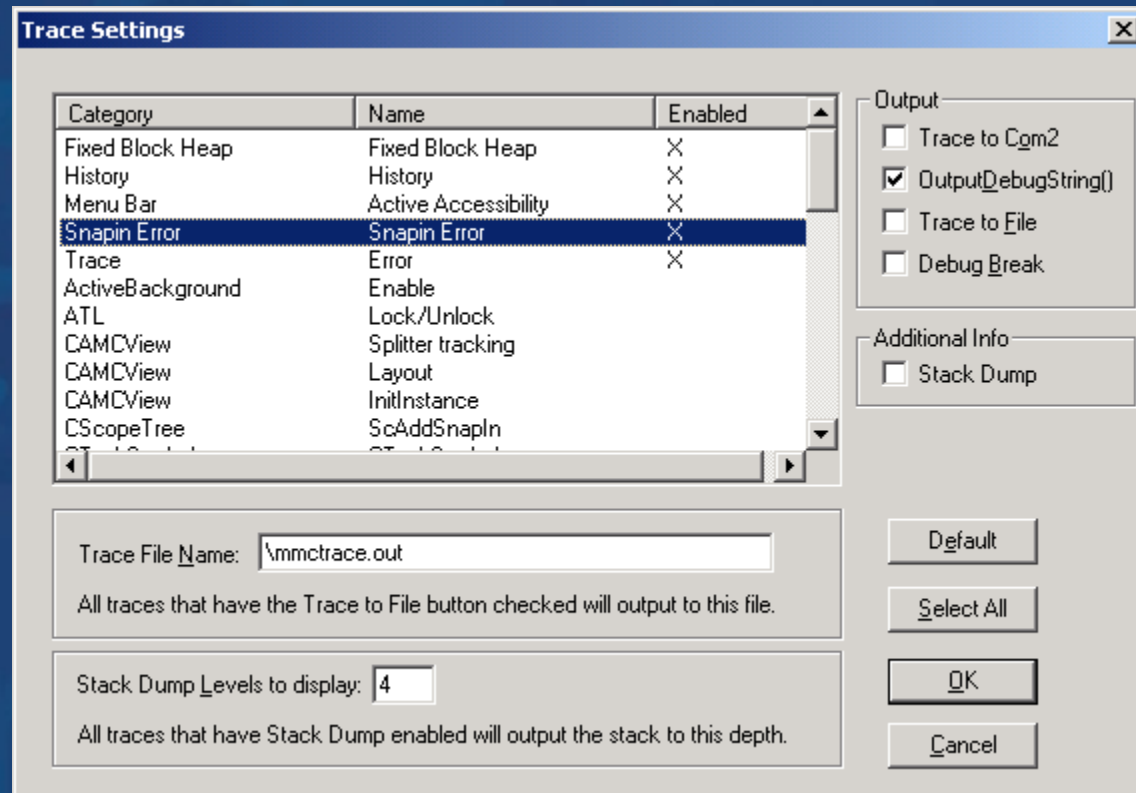


# Debugging support

- **Debug builds of MMC 2.0 contain rich debugging support**
- **Makes it easy for snap-in authors to locate errors and fix them**
- **Debug Trace dialog invoked using special hotkeys**

# Debugging support

## Continued



# UI Enhancements

## Overview

- **Toolbars and menu bars moved to main window**
- **Reduced flicker significantly**
- **Removed Favorites pane - Favorites can still be accessed via menu**

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